

CLAIMS

1. A method for operating a defroster heating of a refrigeration device with following procedural steps:
  - a) recording a voltage value of a supply current fed to the defroster heating;
  - b) generating a pulse-duty ratio of the supply current depending on the recorded voltage value;
  - c) supplying the defroster heating with the supply current keyed according to the generated pulse-duty ratio.
2. The method as claimed in claim 1, characterised in that the pulse-duty ratio is generated as a decreasing step function of the recorded voltage value.
3. The method as claimed in claim 2, characterised in that within a permissible range of fluctuation of the voltage value the step function has at least two, preferably three or four discrete values.
4. The method as claimed in claim 2 or 3, characterised in that the value range of the voltage is divided into a plurality of intervals, to which in each case a fixed pulse-duty ratio is assigned, and in that the ratio of upper to lower limit of each interval is between 1.1 and 1.2.
5. The method as claimed in any one of the foregoing claims, characterised in that voltage values below 150 VAC, preferably below 165 VAC, a pulse-duty ratio of 1 is assigned.

6. The method as claimed in any one of the foregoing claims, characterised in that the supply current is an indirect current and is keyed with a keyed frequency, which is a fraction of its alternating frequency.
7. A refrigeration device with integrated defroster heating (8), characterised by a recording circuit (10,12) for recording a voltage value at a supply connector (11) of the defroster heating (8) and for generating a keyed control signal with a pulse-duty ratio dependent on the recorded voltage value and a circuit breaker (9) activated by the control signal for the supply current fed to the defroster heating (8).
8. The refrigeration device as claimed in claim 7, characterised in that the pulse-duty ratio is generated as a decreasing step function of the recorded voltage value.
9. The refrigeration device as claimed in claim 8, characterised in that the step function has at least two, preferably three or four discrete values.
10. The method as claimed in claim 8 or 9, characterised in that the value range of the voltage is divided into a plurality of intervals, to which in each case a fixed pulse-duty ratio is assigned, and in that the ratio from upper to lower limit of each interval is between 1.1 and 1.2.
11. The refrigeration device as claimed in any one of claims 1 to 10, characterised in that the recording circuit (10, 12) assigns voltage values below 150 VAC, preferably below 165 VAC, a pulse-duty ratio of 1.